

# VAIDEHI BEDEKAR

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## Education

Vellore Institute of Technology, AP

Bachelor of Technology in Computer Science

Sep. 2020 – May 2024

8.3 cgpa

## Coursework

- Data Structures
- Machine Learning
- Algorithm Analysis
- Software Engineering
- Deep Learning
- Database Management
- Cloud Computing
- OOPs

## Projects

**Doc-Aid: Medical Recommendation Application** | *Python, Deep learning, NLP, Android Studio* **Present**

- Designing and implementing a cutting-edge **Medical Recommendation Application** by leveraging extensive medical diagnostic and prescription data.
- Engineering a sophisticated **knowledge graph** by preprocessing and integrating diverse medical data sources, enhancing its capabilities with graph embeddings for efficient information retrieval.
- Pioneering the utilization of state-of-the-art **Graph Neural Networks (GNNs)** enhanced with attention mechanisms within an active learning framework, significantly improving the system's adaptability and recommendation precision.

**PCOS Detection using MLOPS DVC Pipeline** | *Python, Deep Learning* **June 2023**

- Developed a Python application utilizing a hybrid Convolutional Neural Network (CNN) model with an accuracy of **95.3 %** for the detection of Polycystic Ovary Syndrome (PCOS) based on ultrasound images.
- Implemented the **Data Version Control (DVC)** MLOps tool to establish an efficient pipeline for tracking and managing the entire ML workflow.
- Designed a comprehensive pipeline encompassing data injection, data transformation, model construction, model evaluation, and model prediction and Orchestrated **CI/CD** automation through GitHub for seamless project development and deployment.

**Stock Sentiment analysis and Prediction Application** | *Python, Streamlit* **April 2023**

- Created an interactive web application for real-time stock movement prediction and sentiment analysis.
- Deployed the application on the Streamlit community server, enhancing accessibility and automating data visualization.
- Engineered a robust News and Sentiment Pipeline for stocks, leveraging the Financial-summarization-peagasus model for financial news summarization and a **Stacked LSTM model** for stock and crypto data prediction.

## Technical Skills

**Languages:** Python, Java, HTML/CSS, SQL

**Developer Tools:** VS Code, Anaconda, Cuda, IntelliJ, AWS, Android Studio, Docker

**Technologies/Frameworks:** TensorFlow, PyTorch, Keras, ScikitLearn, Git, StreamLit, Docker, Linux, Machine Learning, Deep Learning, NLP, Pandas, Numpy, CUDA, Nodejs, Android, CI/CD

## Position of Responsibility

President of Hostel Sports Committee at VIT-AP University

July 2022 – Dec 2022

President of Marathi Association at VIT-AP University

Jan 2023 - May 2023

## Achievements

**Research on Medical Recommendation System Accepted in EAI ICISML** **June 2023**

- \* Collaborated with Aditya Kadam and Prof. Sagar Pande to develop MEDx: A pioneering Hybrid Graph and GPT-powered Medical Recommendation System.

**Secured 7th Rank among all Engineering Clinics Group Projects in VIT AP** **May 2023**

- \* Designed cost-efficient weapon and intruder detection drone leveraging YOLOv8 with an accuracy of **85 %** for real-time firearm identification in live video streams.